

STRONG COMPONENTS CO., LTD.

Metallized Polypropylene Film Capacitor

(For High Pulse/Large Current)

Type: **PSD**

SPECIFICATIONS

No.	項 目 Item	性 能 Performance	條 件 Test Conditions
1	使用溫度範圍 Operating Temperature Range	-40°C ~ +85°C	
2	額 定 電 壓 Rated Voltage	1000VDC, 1200VDC, 1500VDC, 1600VDC, 2000VDC, 2500VDC	
3	耐電壓 Withstand Voltage	端 子 間 Between Terminals 端 子 外 裝 間 Between Terminals & Enclosure	無 異 常 No abnormality.
			Rated voltage x 160% 60sec Rated voltage x 200% 1~5 sec Charge and discharge current shall not exceed 10 mA
4	絕 緣 阻 抗 Insulation Resistance	C ≤ 0.33μF: 100,000MΩ min C > 0.33μF: 33,000MΩ/μF min	Charge time: 60 ±5sec. Charge voltage: R.V. < 500VDC: 100VDC R.V. ≥ 500VDC: 500VDC Test Temp: 25°C
5	靜 電 容 量 Capacitance	於 指 定 範 圍 內 Within specified tolerance	at 1 KHz ±10% Measure R.V: 5 Vrms or below Test temp: 25°C
6	散 逸 因 數 Dissipation Factor	a. 0.08 %max at 1KHz b. 0.15 %max at 10KHz (C ≤ 1.0μF) 0.2 %max (1.0 < C ≤ 3.3μF)	Measure R.V: 5 Vrms or below Test temp: 25°C
7	端子強度 Terminal Strength	抗 拉 強 度 Pull Strength 扭 轉 強 度 Bending Strength	端 子 不 鬆 斷 No cutting or slack of terminals
			Wire diameter: 0.6&0.8 mm Load: 1 kg, time: 10 sec. Wire diameter: 1.0 mm Load: 2 kg, time: 20 sec. Wire diameter: 0.6&0.8 mm Load: 0.5 kg, 90° x 4 time Wire diameter: 1.0 mm Load: 1 kg, 90° x 4 time
8	耐 震 性 Vibration Proof	無 明 顯 異 常 No abnormality of the appearance	Frequency range 10-55-10 Hz Amplitude: 1.5 mm, 2 hrs/direction for 3 directions
9	焊 錫 附 著 性 Solder Ability	導線浸入後的表面至少需附著 95% 的新焊錫 At least 95% of the surface of the lead wire dipped into is covered with new solder.	Solder temp: 240°C ±2°C Immersion time: 2 ±0.5sec. Solder: SnAgCu (Sn:96.5% Ag:3% Cu:0.5%)
10	焊錫耐熱性 Resistance to Soldering heat	外 觀 Appearance 耐 電 壓 Withstand Voltage 靜電容量變化率 Capacitance Variation 散 逸 因 數 Dissipation Factor 絕 緣 阻 抗 Insulation Resistance	無 明 顯 異 常 No abnormality on appearance 依 項 目 3 Comply with item 3 ±1%以內 Within ±1% 於 項 目 6 範 圍 以 內 Within spec of item 6 above. Same as the spec of item 4 above
			Solder temp: 265 ±5°C Immersion time: 3~5 sec.

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No.	項目 Item	性能 Performance	條件 Remark																
11	耐寒性 Cold Resistance	靜電容量變化率 Capacitance Variation	+3/-0%以內 Within +3/-0%	Temperature: -40 ±2°C Duration: 96±4 hrs															
12	耐熱性 Dry Heat Resistance	絕緣阻抗 Insulation Resistance	C ≤ 0.33μF: 3,000MΩ min C > 0.33μF: 1,000MΩ/μF min	Temperature: +85 ±2°C Duration: 96±4 hrs															
		靜電容量變化率 Capacitance Variation	+0/-5%以內 Within +0/-5%																
13	溫度循環 Temperature Cycle	外觀 Appearance	無明顯異常 No abnormality on appearance	Total: 6 cycle <table border="1" style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr> <th>Step</th> <th>Temp</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">-40 ±2°C</td> <td style="text-align: center;">30 ±1min</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">+25 ±2°C</td> <td style="text-align: center;">10~15min</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">+85 ±2°C</td> <td style="text-align: center;">30 ±1min</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">+25 ±2°C</td> <td style="text-align: center;">10~15min</td> </tr> </tbody> </table>	Step	Temp	Time	1	-40 ±2°C	30 ±1min	2	+25 ±2°C	10~15min	3	+85 ±2°C	30 ±1min	4	+25 ±2°C	10~15min
		Step	Temp		Time														
		1	-40 ±2°C		30 ±1min														
		2	+25 ±2°C		10~15min														
		3	+85 ±2°C		30 ±1min														
4	+25 ±2°C	10~15min																	
耐電壓 Withstand Voltage	依項目 3 Comply with item 3																		
絕緣阻抗 Insulation Resistance	C ≤ 0.33μF: 15,000MΩ min C > 0.33μF: 5,000MΩ/μF min																		
靜電容量變化率 Capacitance Variation	±5%以內 Within ±5%																		
散逸因數 Dissipation Factor	0.1 %max at 1KHz (25°C)																		
14	耐濕性試驗 Humidity Resistance	外觀 Appearance	無明顯異常 No abnormality on appearance 印字可辨識 Marking to be legible	Humidity: 90~95% RH Temperature: +40 ±2°C Duration: 96 ±4 hrs Measure after exposing at normal state for 16 hrs.															
		耐電壓 Withstand Voltage	依項目 3 Comply with item 3																
		絕緣阻抗 Insulation Resistance	C ≤ 0.33μF: 10,000MΩ min C > 0.33μF: 3,000MΩ/μF min																
		靜電容量變化率 Capacitance Variation	±3%以內 Within ±3%																
		散逸因數 Dissipation Factor	0.1 %max at 1KHz (25°C)																
15	高溫負荷 High Temperature Loading Test	外觀 Appearance	無明顯異常 No abnormality on appearance 印字可辨識 Marking to be legible	Temperature: +85 ±2°C Duration: 1,000 +48/-0 hrs Applied voltage 150% x R.V. through series resistor of 20~1000Ω/V to the Capacitor Measure after exposing at normal state for 4 hrs.															
		耐電壓 Withstand Voltage	依項目 3 Comply with item 3																
		絕緣阻抗 Insulation Resistance	C ≤ 0.33μF: 15,000MΩ min C > 0.33μF: 5,000MΩ/μF min																
		靜電容量變化率 Capacitance Variation	±5%以內 Within ±5%																
		散逸因數 Dissipation Factor	0.1 %max at 1KHz (25°C)																